lab final problem 1:

```c
#include<stdio.h>
int main()
{
printf(" Name: Mist. Fabia Akter Barsha\n Date of birth: 02-01-2001\n ID:221-35-1052\n
Blood group : O+   ");
return 0;
}
```

lab final problem 2:

```c
#include <stdio.h>
int main()
{
    int num1, num2,sum, sub, mult,div;


    printf("Input any two numbers separated  : ");
    scanf("%d %d", &num1, &num2);


    sum = num1 + num2;
    sub = num1 - num2;
    mult = num1 * num2;
    div = num1 / num2;


    printf("The sum of the given numbers : %d\n", sum);
    printf("The difference of the given numbers : %d\n", sub);
    printf("The product of the given numbers : %d\n", mult);
    printf("The quotient of the given numbers : %d\n", div);

    return 0;
}
```

lab final problem 3:

```c
 #include <stdio.h>
int main( )
{
        float n1, n2, sum,sub;
        printf("Enter first number: ");

        scanf("%f", &n1);
```

```c
    printf("Enter second number: ");

    scanf("%f", &n2);

    sum=n1+n2;
    sub=n1-n2;
    printf("Sum of two numbers= %f\n", sum);
    printf("Sub of two numbers= %f", sub);


    return 0;

}
```

labfinal problem 4:

```c
#include <stdio.h>

int main()
{
        int n, d, sum;
        printf("Enter the number: ");
        scanf("%d", &n);
        printf("Displaying in reverse order: ");
        while (n != 0)
        {
                d = n % 10;
                printf("%d", d);
                sum += d;
                n /= 10;
        }
        printf("\nSum of it's digit: %d\n", sum);
}
```

lab final problem 5:
```c
#include <stdio.h>
int main()
{
        int mark;
        printf("Enter marks (0-100): ");
        scanf("%d", &mark);
        switch (mark)
        {
                case 80 ... 100:
                        printf("Grade: A+");
```

```c
                    break;
            case 75 ... 79:
                    printf("Grade: A");
                    break;
            case 70 ... 74:
                    printf("Grade: A-");
                    break;
            case 65 ... 69:
                    printf("Grade: B+");
                    break;
            case 60 ... 64:
                    printf("Grade: B");
                    break;
            case 55 ... 59:
                    printf("Grade: B-");
                    break;
            case 50 ... 54:

                    printf("Grade: C+");
                    break;
            case 45 ... 49:
                    printf("Grade: C");
                    break;
            case 40 ... 44:
                    printf("Grade: D");
                    break;
            default:
                    printf("Grade: F");
                    break;
        }
        return 0;
}
```

lab final problem 6:

```c
#include<stdio.h>

int main()

{

 int i,fact=1,number;

 printf("Enter a number: ");

  scanf("%d",&number);

    for(i=1;i<=number;i++){
```

```c
        fact=fact*i;
    }
    printf("Factorial of %d is: %d",number,fact);
return 0;
}
```

lab final problem 7:

```c
#include <stdio.h>
int main()
{

  int arr[10],temp,max,min;
  for(int i=0;i<5;i++) scanf("%d",&arr[i]);

  max=arr[0];
  for(int i=1;i<5;i++){
    if(max<arr[i]) max = arr[i];
  }

  printf("Max Element: %d ",max);
  printf("\n");
  min=arr[0];
  for(int i=1;i<5;i++){
    if(min>arr[i]) min = arr[i];
  }
```

```c
printf("Min Element: %d",min);
printf("\n");


for(int i=0;i<4;i++){
  for(int j=0;j<4-i;j++){
    if(arr[j]>arr[j+1]){
      temp=arr[j+1];
      arr[j+1]=arr[j];
      arr[j]=temp;


    }
  }
}
printf("Accending Oreder ");
for(int i=0;i<5;i++) printf("%d ",arr[i]);
//Deccending Order
for(int i=0;i<4;i++){
  for(int j=0;j<4-i;j++){
    if(arr[j]<arr[j+1]){
      temp=arr[j+1];
      arr[j+1]=arr[j];
      arr[j]=temp;


    }
  }
}
printf("\n");
printf("Decending Order");
```

```c
    //Accending Order

    for(int i=0;i<5;i++) printf("%d ",arr[i]);



}



lab final problem 8:

#include <stdio.h>


int main()
{
        int arr1[5], arr2[5], num, l = 0, m = 0;
        for (int i = 0; i < 10; i++)
        {
                scanf("%d", &num);
                if (num % 2 == 0)
                {
                        arr1[l] = num;
                        l++;
                }
                else
                {
                        arr2[m] = num;
                        m++;
                }
        }
        printf("Even Array\n");
```

```c
        for (int i = 0; i < l; i++) printf("%d ", arr1[i]);

        printf("\n");

        Printf("Odd Array\n")

        for (int i = 0; i < m; i++) printf("%d ", arr2[i]);
}
```

lab final problem 9:

```c
#include <stdio.h>
#include <math.h>

int main()
{
        int n, a = 1, b = 0, s;
        int fact = 1, prime, choice, num;
        int n, reversed = 0, remainder, original;
        int flag = 0;
        printf("Enter 1 to Know Number Is prime\n");
        printf("Enter 2 to know Number is Fibonacci Series\n");
        printf("Enter 3 to Palindrome\n");
        printf("Enter A Number to Choice: \n");
        scanf("%d", &choice);
        switch (choice)
        {

                case 1:
                        scanf("%d", &prime);
                        if (prime == 1 || prime == 2)
                        {
```

```c
            printf("Number is Not Prime");

            break;

      }


      for (int i = 3; i <= sqrt(prime); i++)

      {

            if (prime % i == 0)

            {

                  flag = 1;

                  break;

            }

      }

      if (flag == 0) printf("Number Is Prime");

      else printf("Number is Not Prime");

      break;

case 2:


      scanf("%d", &n);

      printf("Enter a Number to Know Fibonakki Series");

      for (int i = 0; i < n; i++)

      {

            printf("%d ", b);

            s = a + b;

            a = b;

            b = s;

      }

      break;

case 3:
```

```c
        printf("Enter a Number To check Palindrome Or Not ");

        scanf("%d", &n);

        original = n;


        while (n != 0)

        {

                remainder = n % 10;

                reversed = reversed *10 + remainder;

                n /= 10;

        }


        if (original == reversed)

                printf("%d is a palindrome.", original);

        else

                printf("%d is not a palindrome.", original);


        break;

    default:

        printf("Invalid Number");

    }
}
```